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DGI/Tc L.b NO. 3557(L)

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ASST ID 2095709

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Engineering Calculations of Nuclear Reactors,
by A. Ya. Kramerov,
RUSSIAN, per, Inzhenernye Raschety Reaktorov,
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Engineer and Rescue Work in the Epicenter of an
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(SF-3384)

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pp 39-124.

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Karev, G. A.
INITIAL PRIMING OF SIPHON SPILLWAYS
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1961, 24p. PL-480 Int.
Order from OTS \$0.50

61-11433

Trans. of Inzhenerno-Stroitel'nyi Institut, Tomsk.
(Sbornik Nauchnykh Trudov (USSR) 1957, v. 2,
p. 97-123.

DESCRIPTORS: Water, *Hydraulic systems, Structures, Mathematical analysis, *Dams, Storage, pressure, Valves, Automatic, Sensitivity, Ducts, Primers.

Theoretical statements are presented based on research on models of flat profile siphons. The main factors determining the character of priming of the automatic siphon spillway are: (1) the sensitivity of the (Engineering--Civil, TT, v. 7, no. 7) (over)

61-11433

1. Title: Siphon spillways
- I. Karev, G. A.
- II. PL-480 Int (61-11433)
- III. National Science Foundation, Washington, D. C.

Office of Technical Services

Bu. of Reclamation
7-D-766(2)

B-7507-D
6 Sept. 1966

RASCHET I PRIKLAZHENNOGO SOSRODIANIYA AROCHNOI PLOSHINY O
DEISTVITEL'NOY BOKOVOI SEIMICHESKOE NAGRUZKE

Author: Orekhov, V.G.

Source: Inzhenerno-Stroitel'nyi Institut. Sbornik "trudov."
Moscow, No. 46 pp 35-47, 1964

(13 pp)

Language: Russian

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Handbook on Electrical Communication - Radio
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SCL-T-66-252 <=>
PB-186 084T <=>
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Blekhman, I. I.
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[1963] 12p.
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Trans. of Akad[emiya] Nauk SSSR. Inst[itut]
Mekh[aniki]. Inzh[enernyi] Sb[ornik] 1964, v. 19,
p. 55-64.

DESCRIPTORS: *Civil engineering, Construction, Vi-
bration, *Beams (Structural), Sheets, Metal plates,
Foundations (Structures)

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I. Blekhman, I. I.
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Galerkin to Linear Problems Arising From
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S. G. Gurevich, 10 pp.

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pp 53-64, 1955,

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Some Cases of the Elastic Equilibrium of an
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*AEC SCI-T-66-252

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Stepanov, R. D.
ON THE FLUTTER OF CYLINDRICAL PANELS
MOVING IN A GAS. [1962] [15]p. 3 refs.
Free copies available from Boeing Scientific Research
Labs. Library as Boeing Trans. R44. When supply is
exhausted, order from OTS or SLA \$1.60, 62-18855

Trans. of Akademiya Nauk SSSR. Institut Mekhaniki.
(Inzhenernyi Sbornik), 1959, v. 25, p. 92-100.

DESCRIPTORS: *Aerodynamic configurations, *Panels
(Structural), Cylindrical bodies, *Flutter, Supersonic
characteristics, Stability, Numerical analysis, Complex
numbers.

This paper gives an application of a method to the solu-
tion of the problem of the flutter of a circular cylindrical
shell of hollow section, moving in a gas with supersonic
velocity. It is assumed that the shell has hinged fasten-
ings at its longitudinal and transverse bounding edges
(Mechanics--Aerodynamics, TT, v. 9, no. 4) (over)

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One-Dimensional Problem of Temperature
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Golitsynskaya, E. D.
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[Rough draft] trans. of [Akademiya Nauk SSSR.
 Institut Mekhaniki]. Inzhenernyi Sbornik, 1959, v. 25,
 p. 145-153.

DESCRIPTORS: *Structural shells, *Cylindrical
 bodies, Stability, Load distribution, Deflection,
 Theory, Numerical methods and procedures, Partial
 differential equations.

The investigation is based on the equations of the
 linear theory of thin small-curvature shells. Con-
 sideration is given to the stability equation, complex
 (Mechanics, TT, v. 7, no. 7) (over)

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Supersonic Flow of Air in Tubes, by
A. E. Marenov, 5 pp.

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Trans. of Akademiya Nauk SSSR. Institut Mekhaniki.
Inzhenernyi Sbornik, 1960, v. 27, p. 70-76.

DESCRIPTORS: *Aerodynamic configurations, *Panels
(Structural), *Flutter, Supersonic characteristics,
Numerical analysis, *Complex numbers.

In the problem of the flutter of a thin, elastic, rectan-
gular panel, moving in a gas with great supersonic ve-
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of the corresponding non-self-conjugate boundary value
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Labs., Seattle, Wash.

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On the Elastic-Plastic Stability of a
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Mk Nauk Otdel Tekh Nauk, Vol XXVII,
1960, pp 87-91.

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TT-63-23478

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ON AN ANALYTICAL REPRESENTATION OF THE
THERMODYNAMIC FUNCTIONS OF DISSOCIATING
AIR (Ob Analiticheskoy Predstavlenii Termodinami-
cheskikh Funktsii Dissotsiiruyushchevo Vozdukha) tr.
by John W. Brook. May 62 [17]p 2refs Grumman Re-
search dept. rept. TR-21; AD-275 816.
Order from OTS, SLA, or ETC \$1.60 TT-63-23478

Trans. of [Akademiya Nauk SSSR, Institut Mekhaniki].
Inzhenernyi Sbornik, 1960, v. 28 [p. 36-43]. (Abstract
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DESCRIPTORS: *Thermodynamics, *Dissociation, *Air,
Chemical reactions, Excitation, Temperature, Energy,
Functions, Gases, Partial differential equations,
Molecules, Enthalpy, Entropy, Specific heat, Gas
ionization, Gas flow,

(Physics--Thermodynamics, TT, v. 11, no. 2) (over)

I. Mikhailov, V. V.
II. GWT-TR-21
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IV. AD-275 816

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Effect of radioactive irradiation on the mechanical
properties of solid bodies by V.S.Lenskiy,

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Effect of Radioactive Irradiation on the
Mechanical Properties of Solids, by V. S.
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pp 97-123.
JPRS 46209

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On the Strength of Thick-Walled Cylindrical and
Hollow Spherical Shells Exposed to Irradiation, by
A. A. Il'yushin, P. M. Ogibalov, 15 pp.
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FTD TT-62-719

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OTS 60-21861.

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Unksov, E. P.
ENGINEERING THEORY OF PLASTICITY. 1962, 1v.
Order from Butterworth Inc., 7235 Wisconsin Ave.,
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Trans. of mono. [Inzhenennaya Teoriya Plastichnosti;
Metody Rascheta Usilii Deformirovaniya, Moscow,
1959, 327p.].

DESCRIPTORS: *Plasticity, Theory, Engineering.

(Mechanics, TT, v. 9, no. 1)

I. Unksov, E. P.
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Washington, D. C.

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Bolotin, V. V.
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[1963] 37p. 19 refs.
Free copies available from Boeing Scientific Research
Labs. Library as Boeing Trans. R45. When supply
is exhausted, order from OTS or SLA \$3.60, 63-16632

Trans. of Akademiya Nauk SSSR. Institut Mekhaniki.
Inzhenernyi Sbornik, 1960, v. 28, p. 56-75.

DESCRIPTORS: *Flutter, Sheets, *Elastic shells,
Stability, Supersonic flow, Gas flow, *Aeroelasticity,
Fluid dynamics properties, Numerical analysis,
Aerodynamics, Panels (Structural), Structural shells,
Aerodynamic heating.

The study is devoted to an investigation of nonlinear
flutter of plane and curvilinear panels, about which
there is a flow with great supersonic velocities. It is
(Mechanics--Aerodynamics, TT, v. 10, no. 5) (over)

I. Bolotin, V. V.
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Research Labs.,
Seattle, Wash.

Office of Technical Services

Modeling of the Action of an Explosion With
Concentrated Charges in Uniform $\bar{z}$ (Homogeneous)
Ground, by V. V. Viktorov, R. D. Stepanov, 14 pp.

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AEC SCL-T-392

Sci - Engr, Phys
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On the Strength of Thick-Walled Cylindrical
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XXVIII, 1960, pp 134-144. 9667388

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Rolling Moment of Flat Wings in an Oblique
Supersonic Gas Flow, by Yu. I. Krasil'nikov,
17 pp.

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Mekh Ak Nauk SSSR, Vol XXIX, 1960,
pp 124-135. 9669772

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1964, pp 147-155.
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